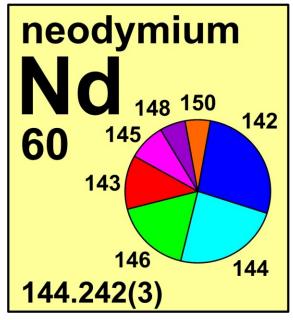
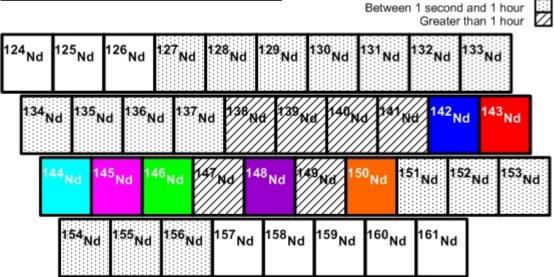
neodymium



Stable	Atomic mass*	Mole
isotope		fraction
¹⁴² Nd	141.907 7233	0.272
¹⁴³ Nd	142.909 8143	0.122
¹⁴⁴ Nd	143.910 0873	0.238
^{145}Nd	144.912 5736	0.083
¹⁴⁶ Nd	145.913 1169	0.172
¹⁴⁸ Nd	147.916 893	0.057
¹⁵⁰ Nd	149.920 891	0.056

^{*} Atomic mass given in unified atomic mass units, u.

Half-life of redioactive isotope
Less than 1 second



Important applications of stable and/or radioactive isotopes

Isotopes in geochemistry

1) ¹⁴³Nd/¹⁴⁴Nd is used for dating rocks and as a chemical tracer in geochemistry.

Isotopes in physics

1) Double beta decay has been studied using ¹⁵⁰Nd.

Isotopes in industry

1) ¹⁴⁶Nd is being studied for possible use in the production of ¹⁴⁷Pm, a radioisotopic power generation source.

^{**}Applications of neodymium isotopes are still being researched and this page will be updated shortly. **